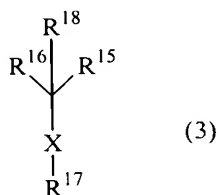


IN THE CLAIMS

The status of each claim in the present application is listed below.

Claims 1-52: (Canceled).

53. (Previously Presented) A compound represented by the formula (3):



wherein

R^{15} represents a pyridyl group substituted with at least one group represented by the formula $-\text{Q}^{201}-\text{Q}^{202}-\text{Q}^{203}-\text{Q}^{204}-\text{Q}^{205}-\text{Q}^{206}-\text{Q}^{207}$, wherein

Q^{201} represents a single bond, an alkyl group having from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms or a heterocyclic group;

Q^{202} represents a single bond, -O-, -NH-, -CH=N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

Q^{203} represents a single bond, -CO-, -CS-, -SO-, -SO₂- or -CONH-;

Q^{204} represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group, an aromatic hydrocarbon group or a heterocyclic group;

Q^{205} represents a single bond, -NH- or -N(alkyl)-;

Q^{206} represents a single bond, -O-, -CO-, -CS-, -SO₂-, -SO- or -S-; and

Q^{207} represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₃₋₈ cycloalkyl group, a C₁₋₆ alkoxy group, a C₂₋₆ alkenyloxy group, an azide group, a cyano group, an amino group, a C₁₋₆ alkylamino group, a di(C₁₋₆ alkyl)amino group, a C₂₋₆ alkanoylamino group, a di(C₂₋₆ alkanoyl)amino group, a

carboxyamino group, a C₁₋₆ alkoxy-carbonylamino group, a di(C₁₋₆ alkoxy)-carbonylamino group, a heterocyclic group, an aromatic hydrocarbon group, a cycloalkenyl group, a heterocyclic oxy group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, heterocyclic group, heterocyclic-oxy group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from halogen atoms, C₁₋₆ alkyl groups, C₁₋₆ alkoxy groups, C₂₋₆ alkenyl groups, carboxyamino C₁₋₆ alkyl groups, C₁₋₆ alkoxy-carbonylamino C₁₋₆ alkyl groups, formyl group, C₂₋₆ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, C₂₋₆ alkenyloxy groups, hydroxy group, carboxyl group, C₇₋₁₆ aralkyl groups, thioxo group, C₂₋₇ alkanoyl groups, C₂₋₇ thioalkanoyl groups, thioformyl group, amino group, C₁₋₆ alkylamino groups, di(C₁₋₆ alkyl)amino groups, C₁₋₆ alkoxy-carbonyl groups, carbamoyl group, C₁₋₆ alkyl-carbamoyl groups, di(C₁₋₆ alkyl)-carbamoyl groups, thiocarbamoyl group, C₁₋₆ alkyl-thiocarbamoyl groups, di(C₁₋₆ alkyl)-thiocarbamoyl groups, C₁₋₆ alkoxy-carbamoylamino groups, C₁₋₆ alkoxy-carbamoyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoylamino groups, C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, thio C₂₋₇ alkanoylamino groups, thio C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, formylamino group, formyl(C₁₋₆ alkyl)amino groups, thioformylamino group, thioformyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoyloxy groups, formyloxy group, C₁₋₆ alkoxy-carbonyloxy groups, carbamoyloxy group, C₁₋₆ alkyl-carbamoyloxy groups, di(C₁₋₆ alkyl)-carbamoyloxy groups, aminocarbonylamino group, (C₁₋₆ alkyl)aminocarbonylamino groups, di(C₁₋₆ alkyl)aminocarbonylamino groups, aminocarbonyl(C₁₋₆ alkyl)amino groups, (C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, di(C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, mercapto group, C₁₋₆ alkylthio groups, C₁₋₆ alkylsulfinyl groups, C₁₋₆ alkylsulfonyl groups, aminosulfonyl group, C₁₋₆ alkylaminosulfonyl groups, di(C₁₋₆ alkyl)aminosulfonyl

groups, C₁₋₆ alkylsulfonylamino groups, C₁₋₆ alkylsulfonyl(C₁₋₆ alkyl)amino groups, aminosulfonylamino group, C₁₋₆ alkylaminosulfonylamino groups, di(C₁₋₆ alkyl)aminosulfonylamino groups, aminosulfonyl(C₁₋₆ alkyl)amino groups, C₁₋₆ alkylaminosulfonyl(C₁₋₆ alkyl)amino groups, and di(C₁₋₆ alkyl)aminosulfonyl(C₁₋₆ alkyl)amino groups,

wherein said heterocyclic group is selected from the group consisting of piperazine, morpholine, piperidine, thiophene and 1,3-dioxilane;

R¹⁶ represents an unsubstituted phenyl group or a phenyl group substituted with at least one substituent represented by the formula -Q²⁰¹-Q²⁰²-Q²⁰³-Q²⁰⁴-Q²⁰⁵-Q²⁰⁶-Q²⁰⁷, wherein

Q²⁰¹ represents a single bond, an alkyl group having from 1 to 6 carbon atoms or an alkenyl group having from 2 to 6 carbon atoms,

Q²⁰² represents a single bond, -O-, -NH-, -CH=N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

Q²⁰³ represents a single bond, -CO-, -CS-, -SO-, -SO₂- or -CONH-;

Q²⁰⁴ represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group or an aromatic hydrocarbon group;

Q²⁰⁵ represents a single bond, -NH- or -N(alkyl)-;

Q²⁰⁶ represents a single bond, -O-, -CO-, -CS-, -SO₂-, -SO- or -S-; and

Q²⁰⁷ represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₃₋₈ cycloalkyl group, a C₁₋₆ alkoxy group, a C₂₋₆ alkenyloxy group, an azide group, a cyano group, an amino group, a C₁₋₆ alkylamino group, a di(C₁₋₆ alkyl)amino group, a C₂₋₆ alkanoylamino group, a di(C₂₋₆ alkanoyl)amino group, a carboxyamino group, a C₁₋₆ alkoxycarbonylamino group, a di(C₁₋₆ alkoxy)carbonylamino group, an aromatic hydrocarbon group, a cycloalkenyl group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from the group consisting of halogen atoms, C₁₋₆ alkyl groups, C₁₋₆ alkoxy groups, C₂₋₆ alkenyl groups, carboxyamino C₁₋₆ alkyl groups, C₁₋₆ alkoxycarbonylamino C₁₋₆ alkyl groups, formyl group, C₂₋₆ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, C₂₋₆ alkenyloxy groups, hydroxy group, carboxyl group, C₇₋₁₆ aralkyl groups, thioxo group, C₂₋₇ alkanoyl groups, C₂₋₇ thioalkanoyl groups, thioformyl group, amino group, C₁₋₆ alkylamino groups, di(C₁₋₆ alkyl)amino groups, C₁₋₆ alkoxycarbonyl groups, carbamoyl group, C₁₋₆ alkylcarbamoyl groups, di(C₁₋₆ alkyl)carbamoyl groups, thiocarbamoyl group, C₁₋₆ alkylthiocarbamoyl groups, di(C₁₋₆ alkyl)thiocarbamoyl groups, C₁₋₆ alkoxycarbamoylamino groups, C₁₋₆ alkoxycarbamoyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoylamino groups, C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, thio C₂₋₇ alkanoylamino groups, thio C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, formylamino group, formyl(C₁₋₆ alkyl)amino groups, thioformylamino group, thioformyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoyloxy groups, formyloxy group, C₁₋₆ alkoxycarbonyloxy groups, carbamoyloxy group, C₁₋₆ alkylcarbamoyloxy groups, di(C₁₋₆ alkyl)carbamoyloxy groups, aminocarbonylamino group, (C₁₋₆ alkyl)aminocarbonylamino groups, di(C₁₋₆ alkyl)aminocarbonylamino groups, aminocarbonyl(C₁₋₆ alkyl)amino groups, (C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, di(C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, mercapto group, C₁₋₆ alkylthio groups, C₁₋₆ alkylsulfinyl groups, C₁₋₆ alkylsulfonyl groups, aminosulfonyl group, C₁₋₆ alkylaminosulfonyl groups, di(C₁₋₆ alkyl)aminosulfonyl groups, C₁₋₆ alkylsulfonylamino groups, C₁₋₆ alkylsulfonyl(C₁₋₆ alkyl)amino groups, aminosulfonylamino group, C₁₋₆ alkylaminosulfonylamino groups, di(C₁₋₆ alkyl)aminosulfonylamino groups, aminosulfonyl(C₁₋₆ alkyl)amino groups, C₁₋₆

alkylaminosulfonyl(C₁₋₆ alkyl)amino groups, and di(C₁₋₆ alkyl)aminosulfonyl(C₁₋₆ alkyl)amino groups;

R¹⁷ represents an unsubstituted phenyl group or a phenyl group substituted with at least one substituent represented by the formula -Q²⁰¹-Q²⁰²-Q²⁰³-Q²⁰⁴-Q²⁰⁵-Q²⁰⁶-Q²⁰⁷, wherein

Q²⁰¹ represents a single bond, an alkyl group having from 1 to 6 carbon atoms or an alkenyl group having from 2 to 6 carbon atoms,

Q²⁰² represents a single bond, -O-, -NH-, -CH=N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

Q²⁰³ represents a single bond, -CO-, -CS-, -SO-, -SO₂- or -CONH-;

Q²⁰⁴ represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group or an aromatic hydrocarbon group;

Q²⁰⁵ represents a single bond, -NH- or -N(alkyl)-;

Q²⁰⁶ represents a single bond, -O-, -CO-, -CS-, -SO₂-, -SO- or -S-; and

Q²⁰⁷ represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₃₋₈ cycloalkyl group, a C₁₋₆ alkoxy group, a C₂₋₆ alkenyloxy group, an azide group, a cyano group, an amino group, a C₁₋₆ alkylamino group, a di(C₁₋₆ alkyl)amino group, a C₂₋₆ alkanoylamino group, a di(C₂₋₆ alkanoyl)amino group, a carboxyamino group, a C₁₋₆ alkoxycarbonylamino group, a di(C₁₋₆ alkoxy)carbonylamino group, an aromatic hydrocarbon group, a cycloalkenyl group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from the group consisting of halogen atoms, C₁₋₆ alkyl groups, C₁₋₆ alkoxy groups, C₂₋₆ alkenyl groups, carboxyamino C₁₋₆ alkyl groups, C₁₋₆ alkoxycarbonylamino C₁₋₆ alkyl groups, formyl

group, C₂₋₆ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, C₂₋₆ alkenyloxy groups, hydroxy group, carboxyl group, C₇₋₁₆ aralkyl groups, thioxo group, C₂₋₇ alkanoyl groups, C₂₋₇ thioalkanoyl groups, thioformyl group, amino group, C₁₋₆ alkylamino groups, di(C₁₋₆ alkyl)amino groups, C₁₋₆ alkoxy carbonyl groups, carbamoyl group, C₁₋₆ alkylcarbamoyl groups, di(C₁₋₆ alkyl)carbamoyl groups, thiocarbamoyl group, C₁₋₆ alkylthiocarbamoyl groups, di(C₁₋₆ alkyl)thiocarbamoyl groups, C₁₋₆ alkoxy carbamoylamino groups, C₁₋₆ alkoxy carbamoyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoylamino groups, C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, thio C₂₋₇ alkanoylamino groups, thio C₂₋₇ alkanoyl (C₁₋₆ alkyl)amino groups, formylamino group, formyl(C₁₋₆ alkyl)amino groups, thioformylamino group, thioformyl(C₁₋₆ alkyl)amino groups, C₂₋₇ alkanoyloxy groups, formyloxy group, C₁₋₆ alkoxy carbonyloxy groups, carbamoyloxy group, C₁₋₆ alkylcarbamoyloxy groups, di(C₁₋₆ alkyl)carbamoyloxy groups, aminocarbonylamino group, (C₁₋₆ alkyl)aminocarbonylamino groups, di(C₁₋₆ alkyl)aminocarbonylamino groups, aminocarbonyl(C₁₋₆ alkyl)amino groups, (C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, di(C₁₋₆ alkyl)aminocarbonyl(C₁₋₆ alkyl)amino groups, mercapto group, C₁₋₆ alkylthio groups, C₁₋₆ alkylsulfinyl groups, C₁₋₆ alkylsulfonyl groups, aminosulfonyl group, C₁₋₆ alkylaminosulfonyl groups, di(C₁₋₆ alkyl)aminosulfonyl groups, C₁₋₆ alkylsulfonylamino groups, C₁₋₆ alkylsulfonyl(C₁₋₆ alkyl)amino groups, aminosulfonylamino group, C₁₋₆ alkylaminosulfonylamino groups, di(C₁₋₆ alkyl)aminosulfonylamino groups, aminosulfonyl(C₁₋₆ alkyl)amino groups, C₁₋₆ alkylaminosulfonyl(C₁₋₆ alkyl)amino groups, and di(C₁₋₆ alkyl)aminosulfonyl(C₁₋₆ alkyl)amino groups;

R¹⁸ represents a hydrogen atom or a C₁₋₆ alkyl group; and

X represents -S-, -SO- or -SO₂-;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

54. (Previously Presented) The compound according to Claim 53, wherein R^{18} represents a hydrogen atom.

55. (Previously Presented) The compound according to Claim 53, wherein X represents $-SO_2-$.

56. (Previously Presented) The compound according to Claim 53, wherein Q^{201} , Q^{202} , Q^{203} , Q^{204} , Q^{205} and Q^{206} in the definition of R^{15} each represent a single bond.

57. (Currently Amended) The compound according to Claim 53, wherein ~~wherein~~ Q^{201} , Q^{202} , Q^{205} and Q^{206} in the definition of R^{15} each represent a single bond.

58. (Previously Presented) The compound according to Claim 53, wherein Q^{203} in definition of R^{15} represents $-CONH-$.

59. (Previously Presented) The compound according to Claim 53, wherein Q^{201} , Q^{202} , Q^{203} , Q^{204} , Q^{205} and Q^{206} in the definition of R^{16} each represent a single bond.

60. (Previously Presented) The compound according to Claim 53, wherein Q^{201} , Q^{202} , Q^{203} , Q^{204} , Q^{205} and Q^{206} in the definition of R^{17} each represent a single bond.

61. (Previously Presented) The compound of Claim 53, wherein R^{16} represents an unsubstituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

62. (Previously Presented) The compound of Claim 53, wherein R¹⁶ represents said substituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

63. (Previously Presented) The compound of Claim 53, wherein R¹⁷ represents an unsubstituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

64. (Previously Presented) The compound of Claim 53, wherein R¹⁷ represents said substituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

65. (Previously Presented) The compound of Claim 53, wherein R¹⁸ represents a C₁₋₆ alkyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

66. (Previously Presented) The compound of Claim 53, wherein X represents -S-; or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

67. (Previously Presented) The compound of Claim 53, wherein X represents -SO-; or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

68. (Previously Presented) A method for treating Alzheimer's disease, comprising administering an effective amount of the compound of Claim 53 to a subject in need thereof.

69. (Previously Presented) A pharmaceutical composition, comprising the compound of Claim 53, or N-oxide or S-oxide of the compound, salt thereof, or solvate thereof and a pharmaceutically acceptable carrier.

70. (Previously Presented) A method of preparing a medicament, comprising adding the compound of Claim 53, or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof, to a pharmaceutically acceptable carrier.